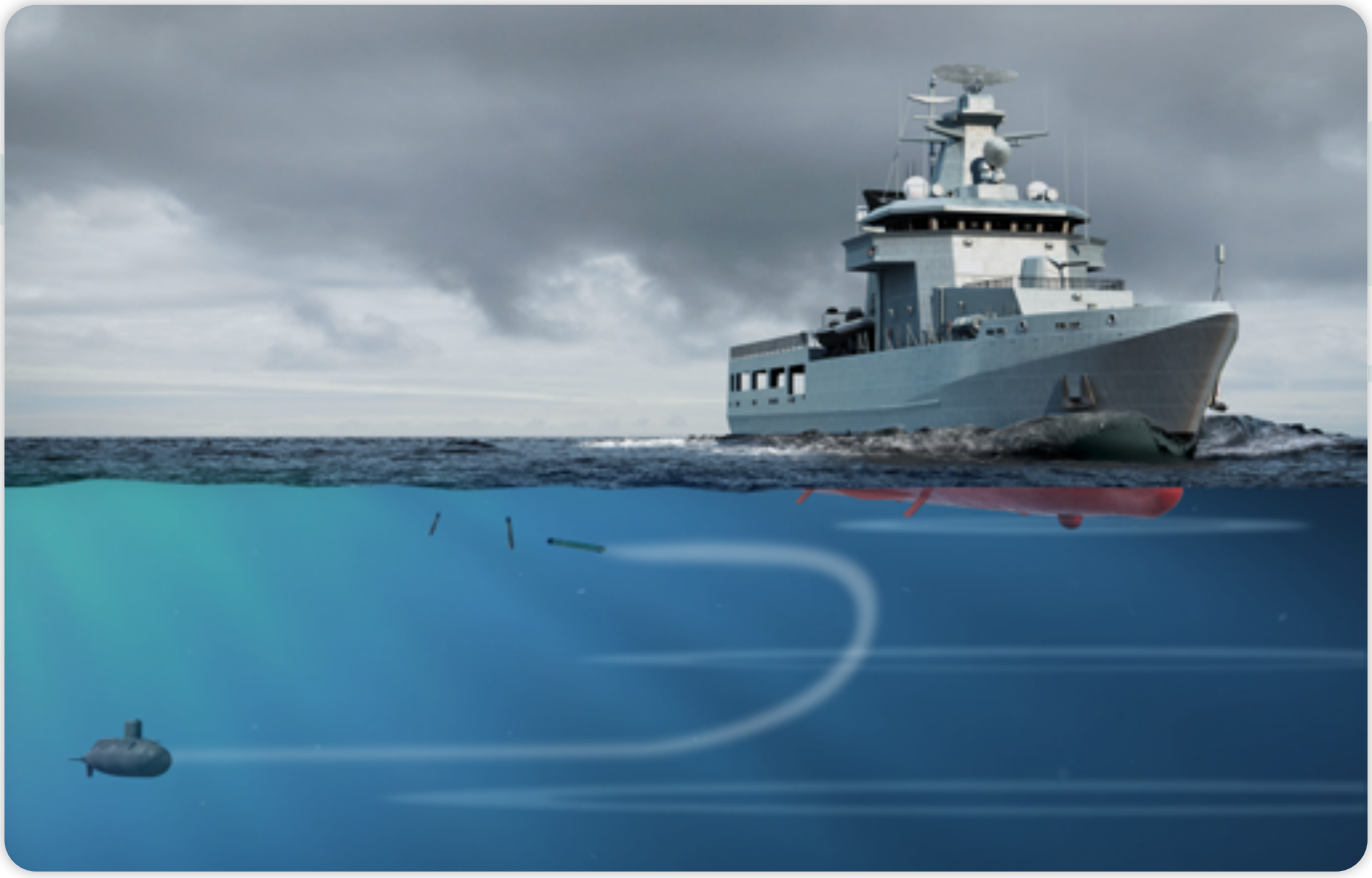
MonkFish™ - Torpedo Detection and Alert Sonar

MonkFish™ an Advanced Compact Hull-Mounted Active and Passive Torpedo Warning System that is highly effective in detecting today's most advanced torpedo systems. Overcoming the limitations of current passive sonar systems, MonkFish operates in active, passive and intercept modes, delivering continuous 24/7/360° detection and alert capabilities for any approaching torpedo in all weather and sea conditions, while the ship is underway.



The system's advanced signal processing and algorithms provide exceptionally accurate detection with negligible false alarms, simultaneous tracking and processing of multiple targets, and ultra-fast torpedo classification in all operational modes. Easy-to-operate and fully automatic, MonkFish enables automatic torpedo alerts, eliminating the need for trained operators. State-of-the-art HMI and GUI features allow full integration with any Combat Management System (CMS) or Torpedo Defense System (TDS).

Designed for installation below the ship's hull, MonkFish requires no deck space and obviates the need to lower towed sonar into the water. Thanks to its small footprint, it can be easily added to any new or existing vessel.

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MonkFish™ - Torpedo Detection and Alert Sonar

System Components

- Underwater Unit
- Acoustic Dome
- Electronic Unit
- Operator Console

System Comonents Technical Info

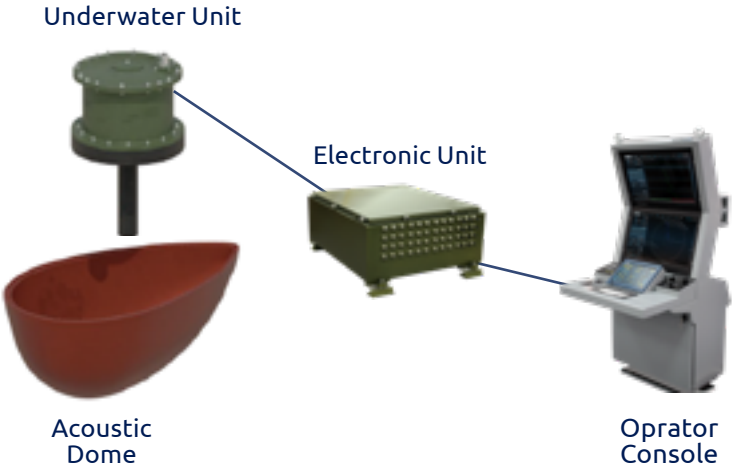
Dimensions:

- Underwater Unit Inside Dome – Diameter: 45 cm; Height: 75 cm
- Dome – Length: 1 m; Width: 65 cm; Height: 90 cm
- Electronic Unit: 40 cm x 40 cm x 30 cm (W, D, H)
- Operator Console: 70 cm x 90 cm x 135 cm (W, D, H)

Benefits

- Active, Passive and Intercept modes of operation
- Simultaneous tracking and processing of multiple targets
- High probability of detection with negligible number of false alarms
- Automatic torpedo alert capabilities; no need for trained operator
- Ultra-fast torpedo classification capability in all operational modes
- Continuous operation in all weather and sea conditions, while the ship is underway

System Diagram



DSIT's End-to-End Underwater Defense Solution

DSIT provides a comprehensive underwater defense solution that utilizes the company's sophisticated technologies and implements a full range of its advanced systems. This powerful, holistic solution counters any underwater threat, including but not limited to submarines, semisubmersible vessels, UUVs, and hostile divers.

About DSIT

A subsidiary of RAFAEL Advanced Defense Systems Ltd., DSIT Solutions Ltd. has, for the last three decades, developed and implemented comprehensive defense and protection solutions against various underwater threats, focusing on five main types of solutions: Underwater Coastal Terrain Dominance systems, Underwater Security systems, Anti-Submarine Warfare (ASW) systems, Acoustic Analysis & Trainer systems and Sonar systems for Submersible Platforms. Based on DSIT Solutions' wide range of capabilities, experience and innovative technology, the company's underwater systems and technologies have been successfully deployed by many sophisticated customers worldwide for naval defense, HLS, and energy security applications.

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